

User's Guide



P/2 DA1 VGA Line Driver

Installation

The Extron P/2 DA1 is a one input, one output VGA line driver. It boosts the video signal between a laptop or desktop computer (input device) and a monitor or large screen projector (output device).

Features

- The P/2 DA1 accepts and outputs VGA, XGA, SXGA, RsGsBs, RGSB, RGBS, and RGBHV signals.
- The gain/peaking switch increases video signal voltages to compensate for signal degradation caused by long cables.

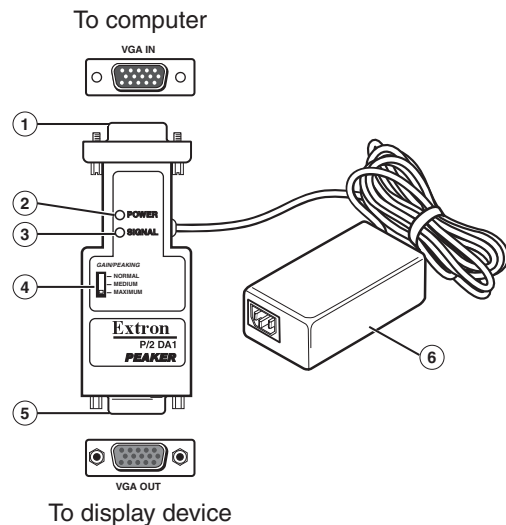
Installation

To install the P/2 DA1, do the following:

1. Turn off power to the input and output devices and unplug their power cords.
2. Connect the computer to the 15-pin HD male input connector (see ① in the “Operation” illustration below).
3. Connect the output device to the 15-pin HD female output connector (see ⑤ in the “Operation” illustration below).
4. Reattach power cords, and apply power to the P/2 DA1 and to the input and output devices.

NOTE Many laptop computers have an external video port, but they require special commands to output the video to that connector. Also, many laptops’ screens shut off after the port is activated. See the computer’s user’s guide for details, or contact Extron for a list of laptop keyboard commands.

Operation



- ① 15-pin HD input connector
- ② Power LED — Lights to indicate that the P/2 DA1 is on.
- ③ Signal LED — Lights to indicate that an input signal is being received.
- ④ Gain/peaking switch — Compensates for cable resistance and capacitance.

Normal — Output is the same level as input.

Medium — 50% of the total gain is applied. Peaking is applied.

Maximum — 100% of the total gain is applied. Peaking is applied.

NOTE If the signal cable between the P/2 DA1 and the output device is shorter than approximately 125 feet, and the gain switch is set to Medium or Maximum, the image may be overcompensated. If the edges of the image seem to exceed their boundaries, or if thin lines and sharp edges look thick and fuzzy, try changing the gain/peaking setting.

- ⑤ 15-pin HD output connector
- ⑥ Power supply — 110–250 V desktop for international use.

Specifications

Video

| | |
|-----------------|---|
| Gain | 0 dB, 0.6 dB, 1.2 dB, selectable: when input is 0.7 Vp-p, output is 0.7 V, 0.75 V, 0.8 Vp-p when switch is at normal, medium, and maximum positions, respectively |
| Bandwidth | 300 MHz (-3 dB) Note: ID bits will be passed through. |

Video input

| | |
|------------------------------|---|
| Number/signal type | 1 VGA-UXGA RGBHV, RGBS, RGSB, RsGsBs |
| Connectors | (1) 15-pin male |
| Nominal level | 0.7 Vp-p for RGB |
| Minimum/maximum levels | Analogue: 0.3 VDC to 1.5 VDC p-p with no offset at unity gain |
| Impedance | 75 ohms |
| Horizontal frequency | 15 kHz to 135 kHz |
| Vertical frequency | 30 Hz to 170 Hz |

Video output

| | |
|--------------------------|--------------------------------------|
| Number/signal type | 1 VGA-UXGA RGBHV, RGBS, RGSB, RsGsBs |
| Connectors | (1) 15-pin HD female |

| | |
|------------------------------|---|
| Nominal level | 0.7 V _{p-p} for RGB |
| Minimum/maximum levels | Analog: 0.3 VDC to 1.5 VDC p-p with no offset at unity gain |
| Impedance | 75 ohms |
| DC offset | ±5 mV maximum with input at 0 offset |

NOTE *Output resolution may vary depending on whether the P/2 DA1 is attached to the computer at startup, and on the type of computer you are using.*

Sync

| | |
|------------------------------|-------------------------------|
| Input/output type | RGBHV, RGBS, RGsB, RsGsBs |
| Input level | 2.0 V to 5.0 V _{p-p} |
| Output level | TTL: 5 V _{p-p} |
| Input impedance | 510 ohms |
| Output impedance | 75 ohms |
| Max. propagation delay | 18.8 ns |
| Max. rise/fall time | 4 ns |
| Polarity | Positive or negative |

General

| | |
|----------------------------|--|
| Power | 100 to 250 VAC, 4 watts, maximum, external, attached |
| Temperature/humidity | Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing |
| Rack mount | No |
| Enclosure type | Plastic clamshell |
| Enclosure dimensions | 0.6" H x 1.3" W x 3.1" D 1.4 cm H x 3.3 cm W x 7.9 cm D |
| Product weight | 0.5 lb (0.3 kg) |
| Shipping weight | 1 lb (1 kg) |
| Vibration | ISTA 1A in carton (International Safe Transit Association) |
| Listings | UL, CUL |
| Compliances | CE |
| MTBF | 30,000 hours |
| Warranty | 3 years parts and labor |

Part Number

| | |
|----------------------------|-----------|
| P/2 DA1, 100 to 250V | 60-319-02 |
|----------------------------|-----------|

NOTE *All nominal levels are at ±10%.*

NOTE *Specifications are subject to change without notice.*



Extron Electronics, USA
1230 South Lewis Street
Anaheim, CA 92805
USA
714.491.1500
Fax 714.491.1517

Extron Electronics, Europe
Beeldschermweg 6C
3821 AH Amersfoort
The Netherlands
+31.33.453.4040
Fax +31.33.453.4050

Extron Electronics, Asia
135 Joo Seng Road, #04-01
PM Industrial Building
Singapore 368363
+65.6383.4400
Fax +65.6383.4664

Extron Electronics, Japan
Kyodo Building
16 Ichibancho
Chiyoda-ku, Tokyo 102-0082 Japan
+81.3.3511.7655
Fax +81.3.3511.7656